

In the claims:

Prior to calculating the claim fees, please delete claims 2-41.

1. (original) A method of post processing an article formed by selective deposition modeling to remove a support structure, the article comprising a three-dimensional object and the support structure, the three-dimensional object formed from a curable phase change composition and the support structure formed from a non-curable phase change composition, the method comprising the following steps:

- (a) providing a temperature controllable environment for the article having an initial temperature above the melting point of the non-curable phase change composition;
- (b) placing the article in the temperature controllable environment;
- (c) holding the temperature of the controllable environment above the melting point of the non-curable phase change composition until substantially all of the support structure transitions to a flowable state and is removed from the three-dimensional object;
- (d) lowering the temperature of the controllable environment to a temperature just above the freezing point of the curable phase change composition;
- (e) holding the temperature of the controllable environment just above the freezing point of the curable phase change composition until the temperature of all the regions of the three-dimensional object substantially equalize; and
- (f) lowering the temperature of the three-dimensional object below the freezing point of the curable phase change composition at a rate wherein a temperature differential within the regions of the three-dimensional object does not exceed about 5°C.

2-41. (cancelled)

42. (new) A method of post processing an article formed by selective deposition modeling to remove a support structure, the article comprising a three-dimensional object and the support structure, the three-dimensional object formed from a curable phase change composition and the support structure formed from a non-curable phase change composition, the method

comprising the following steps:

- (a) providing a temperature controllable environment for the article having an initial temperature above the melting point of the non-curable phase change composition;
- (b) placing the article in the temperature controllable environment, the temperature controllable environment being the liquid non-curable phase change composition as a heat transfer medium.
- (c) holding the temperature of the controllable environment formed by the liquid non-curable phase change composition above the melting point of the non-curable phase change composition until substantially all of the support structure transitions to a flowable state and is removed from the three-dimensional object;
- (d) removing the three-dimensional object from the controllable environment formed by the liquid non-curable phase change composition and;
- (e) cooling the three-dimensional part.

43. (New) The method of claim 1 wherein the temperature of the controllable environment formed by the non-curable phase change composition is above the melting point of the non-curable phase change composition to about 150° C.

44. (New) The method of claim 1 wherein the temperature of the controllable environment formed by the non-curable phase change composition is between above about 45° C to about 150°C.

45. (New) The method of claim 1 wherein the temperature of the controllable environment formed by the non-curable phase change composition is between above about 45° C and 90° C.

46. (New) The method of claim 1 wherein the step of holding the temperature of the controllable environment above the melting point is accomplished for a time period of at least

about 20 minutes.

47 (New) the method of claim 1 further comprising using a heat transferring medium of air in addition to the liquid non-curable phase change composition in the temperature controllable environment.

48 (New) A method of post processing an article formed by selective deposition modeling, the article comprising a three-dimensional object and a support structure, the three-dimensional object formed from a curable phase change composition and the support structure formed from a non-curable phase change composition, the method comprising the following steps:

- (a) providing a temperature controllable environment for the article having an initial temperature above the melting point of the non-curable phase change composition;
- (b) placing the article in the temperature controllable environment, the temperature controllable environment being the liquid non-curable phase change composition;
- (c) holding the temperature of the controllable environment above the melting point of the non-curable phase change composition until substantially all of the support structure transitions to a flowable state and is removed from the three-dimensional object; and
- (d) removing the three-dimensional object from the temperature controllable environment formed by the liquid non-curable phase change composition.

49. (New) The method of claim 48 wherein the heat transferring medium is selected from the group consisting of air and water.

50. (New) The method of claim 48 wherein steps (a) through (f) are completed in the heat transferring medium of water.

51. (New) The method of claim 48 wherein the melting point of the non-curable phase change composition is between about 45° C to about 65° C, and the freezing point of the curable phase change composition is between about 33° C to about 60° C.

52. (New) The method of claim 48 wherein the heat transferring medium is selected from the group consisting of air and water.

53. (New) The method of claim 48 wherein steps (a) through (f) are completed in the heat transferring medium of water.

54. (New) A method of post processing an article formed by selective deposition modeling to remove a support structure, the article comprising a three-dimensional object and the support structure, the three-dimensional object formed from a curable phase change composition and the support structure formed from a non-curable phase change composition, the method comprising the following steps:

- (a) providing a temperature controllable environment for the article having an initial temperature above the melting point of the non-curable phase change composition;
- (b) placing the article in the temperature controllable environment, the temperature controllable environment being the liquid non-curable phase change composition
- (c) removing substantially all of the support structure in a flowable state from the article; and
- (d) removing the three-dimensional object from the temperature controllable environment formed by the liquid non-curable phase change composition.

55. (New) The method of claim 54 wherein the heat transferring medium is selected from the group consisting of air and water.

56. (New) The method of claim 54 wherein steps (a) through (f) are completed in the heat transferring medium of water.

57. (New) The method of claim 54 wherein the melting point of the non-curable phase change composition is between about 45° C to about 65° C, and the freezing point of the curable phase change composition is between about 33° C to about 60° C.

58. (New) The method of claim 54 wherein the heat transferring medium is selected from the group consisting of air and water.

59. (New) The method of claim 54 wherein steps (a) through (f) are completed in the heat transferring medium of water.